

SAFETY DATA SHEET**AKPEROX ER34**

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015.

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name AKPEROX ER34
Chemical name Methyl Ethyl Ketone Peroxide / Acetyl Acetone Peroxide

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Industrial use.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Manufacturer AKPA KİMYA AMBALAJ SANAYİ VE TİCARET ANONİM ŞİRKETİ
Yenibosna Merkez Mah. Ladin Sok. No:36/70 Kat:12 34197
Townofis Bahçelievler, İstanbul, TÜRKİYE
Web: www.akpakimya.com
TEL: +90 212 580 55 59
FAX: +90 212 580 55 21
E-mail: info@akpakimya.com
Contact person Export Department - export@akpakimya.com

1.4. Emergency telephone number

Emergency telephone CHEMTREC: TOLL Free 1-800-424-9300 / Local: +1-703-527-3887
For product information AKPA KİMYA: +90 549 558 40 40

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification (EC 1272/2008)
Physical hazards Org. Perox. D - H242
Health hazards Acute Tox. 4 - H302; Skin Corr. 1B - H314; Skin Sens. 1 - H317
Environmental hazards Not classified.

2.2. Label elements**Pictogram****Signal Word****Hazard statements****Danger**

H242 Heating may cause a fire.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

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H317 May cause an allergic skin reaction.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220 Keep away from acids, alkalis, heavy metal compounds, oxidizing material, combustible materials.

P234 Keep only in original container.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P411+P235 Store at temperatures not exceeding (-5/+25)°C. Keep cool.

P501 Dispose of contents/ container in accordance with national regulations.

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Contains

4-hydroxy-4-methylpentan-2-one, 3,5-dimethyl-1,2-dioxolane-3,5-diol, 2,2'-oxydiethanol, Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Dimethyl Phthalate		%30-50	
REACH Reg. No: 01-2119437229-36-0008			
CAS Number	131-11-3	EC Number	205-011-6
Classification Not Classified.			
4-hydroxy-4-methylpentan-2-one (diacetone alcohol)		%20-35	
REACH Reg. No: 01-2119473975-21-0003			
CAS Number	123-42-2	EC Number	204-626-7
Classification			
Flam. Liq. 3	H226		
Eye Irrit. 2	H319	Eye Irrit. 2; : C ≥ 10 %	
STOT SE 3	H335		

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Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide		%15-20	
REACH Reg. No: 01-2119514691-43-0007			
CAS Number	1338-23-4	EC Number	700-954-4
Classification			
Org. Perox. D	H242		
Acute Tox. 4	H302		
Skin Corr. 1B	H314		
Eye Dam. 1	H318		
Acute Tox. 4	H332		

3,5-dimethyl-1,2-dioxolane-3,5-diol (acetylacetone peroxide)		%15-20	
REACH Reg. No: 01-2119965139-28-0007			
CAS Number	13784-51-5	EC Number	237-438-9
Classification			
Org. Perox. D	H242		
Skin Sens. 1	H317		
Eye Irrit. 2	H319		

2,2'-oxydiethanol		%1-5	
REACH Reg. No: 01-2119457857-21-0022			
CAS Number	111-46-6	EC Number	203-872-2
Classification			
Acute Tox. 4	H302		
STOT RE 2	H373		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Move out of dangerous area. Show this Safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. Call a physician immediately.

Inhalation

Place unconscious person on the side in the recovery position and ensure breathing can take place. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

Ingestion

Immediately rinse mouth and provide fresh air. DO NOT induce vomiting. Get medical attention immediately.

Skin contact

Remove victim immediately from source of exposure. Immediately remove contaminated clothing. Wash skin thoroughly with soap and

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water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

Protection of first aiders

First aid personnel should wear appropriate protective equipment during any rescue. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

4.2. Most important symptoms and effects, both acute and delayed**General information**

See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

Nausea, vomiting. Dizziness.

Ingestion

May cause stomach pain or vomiting.

Skin contact

May cause serious chemical burns to the skin.

Eye contact

May cause severe irritation to eyes.

4.3. Indication of any immediate medical attention and special treatment needed**Notes for the doctor**

Treat symptomatically. May cause sensitization or allergic reactions in sensitive individuals.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing Media

Halon. Direct water jet.

5.2. Special hazards arising from the substance or mixture**Specific hazards**

In case of fire, toxic gases may be formed. Vapours may form explosive air mixtures even at room temperature. Containers can burst violently when heated, due to excess pressure build-up.

Hazardous decomposition products

Fire causes formation of toxic gases. Forms explosive mixtures with air. May explode when heated or when exposed to flames or sparks.

5.3. Advice for firefighters

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Protective actions during firefighting	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Face mask, protective gloves and safety helmet.
Special protective equipment for firefighters	Use pressurised air mask if product is involved in a fire. Cool containers exposed to flames with water until well after the fire is out. If possible, fight fire from protected position. Move container from fire area if it can be done without risk. Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions**

Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke, use open fire or other sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

6.2. Environmental precautions**Environmental precautions**

Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up**Methods for cleaning up**

Keep combustibles away from spilled material. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Dike far ahead of larger spills for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections**Reference to the other sections**

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Usage precautions**

Keep away from heat, sparks and open flame. Avoid inhalation of vapours/spray and contact with skin and eyes. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not handle broken packages without protective equipment.

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Advice on general occupational hygiene

Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices. Mechanical ventilation or local exhaust ventilation may be required. Container must be kept tightly closed. Protect against direct sunlight.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place. Avoid contact with oxidising agents. Store away from: Acids. Alkalis. Heavy metal compounds. Oxidising material - Keep away from flammable and combustible materials. Store in closed original container at temperatures between -5°C and +25°C. Provide an adequate ventilation system.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control Parameters

Occupational exposure limits:

Ingredients	CAS No.	Value	Control Parameters	Basis
Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide	1338-23-4	C	0.2 ppm	ACGIH
			0.2 ppm 1.5 mg/m ³	NIOSH REL
			0.7 ppm 5 mg/m ³	OSHA PO
			0.2 ppm 1.5 mg/m ³	CAL PEL
2,2'-oxybisethanol	111-46-6	TWA	10 mg/m ³	ACGIH
4-hydroxy-4-methylpentan-2-one (diacetone alcohol)	123-42-2	TWA	50 ppm 241 mg/m ³	GB EH40
		STEL	75 ppm 362 mg/m ³	GB EH40
		TWA	50 ppm	ACGIH
		TWA	50 ppm 240 mg/m ³	NIOSH REL OSHA Z-1

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Dimethyl phthalate	131-11-3			OSHA P0
		AGW	20 ppm 96 mg/m ³	DE TRGS 900
		TWA	5 mg/m ³	ACGIH NIOSH REL OSHA Z-1 OSHA P0 CAL PEL
		MPC-TWA	0,3 mg/m ³	RU OEL
		MPC-Stel	1 mg/m ³	RU OEL

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
3,5-dimethyl-1,2-dioxolane-3,5-diol (acetylacetone peroxide)	Workers	Inhalation	Long-term systemic effects	11,75 mg/m ³
	Workers	Skin contact	Long-term systemic effects	13,33 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
3,5-dimethyl-1,2-dioxolane-3,5-diol (acetylacetone peroxide)	Fresh water	0,054 mg/l
	Marine water	0,0054 mg/l
	Intermittent use/release	0,054 mg/l
	Fresh water sediment	0,48 mg/kg
	Marine sediment	0,048 mg/kg
	Sewage treatment plant	6,2 mg/kg
	Soil	0,065 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. All handling to take place in well-ventilated area.

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Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Isolate contaminated clothing and wash before reuse. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Wash promptly with soap & water if skin becomes contaminated.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Wear suitable mask. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14 387 and EN143. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

Environmental exposure controls

Residues and empty containers should be taken care of as hazardous waste controls according to local and national provisions.

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SECTION 9: Physical and Chemical Properties**9.1. Information on basic physical and chemical properties**

Appearance	Liquid.
Colour	Colorless .
Odour	Characteristic.
Melting point	No data available.
Flash point	No data available.
Flammability (solid, gas)	Not applicable
Relative vapour density	No data available.
Density	1,13 ± 0,005 gr/cm ³ (@20°C)
Solubility(ies)	Partially soluble in water.
Viscosity	22 mPa.s (@20°C)

9.2. Other information

Active Oxygen Content	6,5 - 6,8 %
SADT	55°C

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not available.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition.
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10.5. Incompatible materials

Materials to avoid	Strong alkalis. Strong acids. Strong oxides. Strong reducing agents. Metals.
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10.6. Hazardous decomposition products

Hazardous decomposition Products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrocarbons.
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SECTION 11: Toxicological information

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11.1. Information on toxicological effects**Product Information**

Toxicological information	The product is not tested.
Serious eye damage/irritation:	Causes serious eye damage.
Skin corrosion/irritation:	Causes severe burns.
Respiratory or skin sensitisation:	
Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity:	Genotoxicity - In Vitro - In Vivo Based on available data the classification criteria are not met.
Carcinogenicity:	Based on available data the classification criteria are not met.
Reproductive Toxicity - Fertility	Based on available data the classification criteria are not met.
Reproductive Toxicity – Development	Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure:	
STOT - Single exposure	Based on available data the classification criteria are not met.
Specific target organ toxicity - repeated exposure:	
STOT - Repeated exposure	Based on available data the classification criteria are not met.
Aspiration Hazard	Based on available data the classification criteria are not met.
Inhalation	Harmful by inhalation. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.
Ingestion	Harmful if swallowed. May cause burns in mucous membranes, throat, oesophagus and stomach.
Skin contact	Causes burns. Risk of sensitisation or allergic reactions among sensitive individuals.
Eye contact	Causes burns.

Toxicology Data For The Ingredients:**3,5-dimethyl-1,2-dioxolane-3,5-diol (acetylacetone peroxide)**

Acute oral toxicity	LD50: >2000 mg/kg	Species: Rat
Acute dermal toxicity	LD50: >2000 mg/kg	Species: Rat
Acute inhalation toxicity	LC50 (Rat): 13,1 mg/l	Exposure time: 1h

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Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide

Acute oral toxicity	LD50: 1017 mg/kg	Species: Rat
Acute dermal toxicity	LD50: 4000 mg/kg	Species: Rat
Acute inhalation toxicity	LC50 (Rat): 17 mg/l	Exposure time: 4h

4-hydroxy-4-methylpentan-2-one (diacetone alcohol)

Acute oral toxicity	LD50: 3002 mg/kg	Species: Rat
Acute dermal toxicity	LD50: >1875 mg/kg	Species: Rabbit
Acute inhalation toxicity	LC50 (Rat): ≥7,6 mg/l	Exposure time: 4h

2,2'-oxydiethanol

Acute oral toxicity	LD50: 19600 mg/kg	Species: Rat
Acute dermal toxicity	LD50: 13300 mg/kg	Species: Rabbit
Acute inhalation toxicity	LC50 (Rat): >4,6 mg/l	Exposure time: 4h

Dimethyl phthalate

Acute oral toxicity	LD50: >5000 mg/kg	Species: Rat
Acute dermal toxicity	LD50: >10000 mg/kg	Species: Rabbit
Acute inhalation toxicity	The substance or mixture has no acute inhalation toxicity	

SECTION 12: Ecological Information

12.1. Toxicity

Ecological information on ingredients.**Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide**

Toxicity to fish	LC50, 96h: 44,2 mg/l
Toxicity to algae	ErC50, 72h: 5,6 mg/l/l
Toxicity to bacteria	EC10, 0,5h: 5,6 mg/l
Toxicity to daphnia and other aquatic invertebrates	39 mg/l, 48h

3,5-dimethyl-1,2-dioxolane-3,5-diol (acetylacetone peroxide)

Toxicity to fish	LC50, 96h: (Danio rerio (zebra fish)): > 67.6 mg/l
Toxicity to daphnia and other aquatic invertebrates	EC50, 48h: (Daphnia magna (Water flea)): 7.05 mg/l
Toxicity to algae	EC50, 72h: (Pseudokirchneriella subcapitata (green algae)): 5.36 mg/l
Toxicity to microorganisms	EC50, 3h: 614 mg/l

4-hydroxy-4-methylpentan-2-one (diacetone alcohol)

Toxicity to fish	LC50, 96h: (Oryzias latipes (Orange-red killifish)): > 100 mg/l
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Toxicity to algae	EC50, 72h: (Pseudokirchneriella subcapitata (green algae)): >1.000 mg/l
Toxicity to microorganisms	EC50, 3h: > 1.000 mg/l
Toxicity to daphnia and other aquatic invertebrates	EC50, 48h: (Daphnia magna (Water flea)): > 1.000 mg/l

12.2. Persistence and degradability**Persistence and degradability** The product is easily biodegradable.**12.3. Bio accumulative potential****Bio accumulative potential** No data available on bioaccumulation.**12.4. Mobility in soil****Mobility** The product is partly miscible with water and may spread in the aquatic environment.**12.5. Results of PBT and vPvB assessment****Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.**12.6. Other adverse effects****Other adverse effects** May be hazardous to aquatic life.**SECTION 13: Disposal considerations****13.1. Waste treatment methods****General information** Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. When handling waste, consideration should be made to the safety precautions applying to handling of the product**Disposal methods**

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Environmental Manager must be informed of all major spillages.

SECTION 14: Transport information**General information**

For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

14.1. UN number**UN No. (ADR/RID)** 3105**UN No. (IMDG)** 3105

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UN No. (ICAO) 3105
UN No. (ADN) 3105

14.2. UN proper shipping name

Proper Shipping name(ADR/RID) ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide)
Proper Shipping name (IMDG) ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide)
Proper Shipping name (ICAO) ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide)
Proper Shipping name (ADN) ORGANIC PEROXIDE TYPE D, LIQUID (Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide)

14.3. Transport hazard class(es)

ADR/RID class 5.2
ADR/RID label 5.2
IMDG class 5.2
ICAO class/division 5.2
ADN class 5.2

Transport labels**14.4. Packing group**

Not applicable.

14.5. Environmental hazards**Environmentally hazardous substance/marine pollutant**

No.

14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

EmS F-J, S-R
Emergency Action Code 2WE
Hazard Identification Number (ADR/RID) -
Tunnel restriction code (D)

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14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL	Not Applicable.
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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

Health and Safety at Work etc. Act 1974 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information**Key literature references and sources for data**

This SDS is prepared based on the information received from the product owner.

Classification procedures according to Regulation (EC) 1272/2008

Acute Tox. 4 - H302; Skin Corr. 1B - H314; Skin Sens. 1 - H317; Calculation Method. Org. Perox. D H242 Expert Judgement.

Training advice

Read and follow manufacturer's recommendations. Only trained personnel should use this material.

Revision comments

The SDS is generated in accordance with the 1907/2006 REACH and 1272/2008 CLP regulations.

Issued By

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Issued Date

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Revision date

15.08.2019

Revision

2.0

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Hazard statements in full

H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure exposure cause the hazard.

Other abbreviations

ACGIH	USA, ACGIH Thershold Limit Values (TLV)
NIOSH REL	USA NIOSH Recommended Exposure Limits
OSHA P0	USA OSHA – TABLE Z-1 Limits for ait contaminants – 1910.1000
OSHA Z-1	USA Occupational Exposure Limits (OSHA) – Table Z-1 Limits for air contaminants
ACGIH/TWA	8-hour, time-weighted average
ACGIH/STEL	Short-term exposure limit
ACGIH/C	Ceiling limit
NIOSH REL/TWA	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL/S	STEL-15minute TWA exposure that should not be exceeded at any time during a workday
SIOSH REL/C	Celing value not be exceeded at any time
OSHA PO/TWA	8-hour time weighted average
OSHA PO/STEL	Short-term exposure limit
OSHA PO/C	Ceiling limit
OSHA Z-1/TWA	8-hour time weighted average
OSHA PO/STEL	Short-term exposure limit
OSHA PO/C	Ceiling limit
OSHA Z-1/TWA	8-hour time weighted average
RU OEL / MPC-STEL	Russia. Maximum Permissible Concentration – Short Term Exposure
RU OEL / MPC-TWA	Russia. Maximum Permissible Concentration – Time Weighted Average

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.